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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/032,962	. 10/24/2001	Matthew Heidner	1001.1479101	8725
28075	7590 08/24/2006		EXAMINER	
CROMPTON, SEAGER & TUFTE, LLC 1221 NICOLLET AVENUE			THALER, MICHAEL H	
SUITE 800 MINNEAPOLIS, MN 55403-2420			ART UNIT	PAPER NUMBER
			3731	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)
	10/032,962	HEIDNER, MATTHEW
Office Action Summary	Examiner	Art Unit
	Michael Thaler	3731
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address
A SHORTENED STATUTORY PERIOD FOR REPLY WHICHEVER IS LONGER, FROM THE MAILING DA  - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period w  - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tim will apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	I. ely filed the mailing date of this communication. O (35 U.S.C. § 133).
Status		
1)⊠ Responsive to communication(s) filed on 10 Ju 2a)⊠ This action is FINAL. 2b)□ This 3)□ Since this application is in condition for allowant closed in accordance with the practice under E	action is non-final. nce except for formal matters, pro	
Disposition of Claims		
4) ⊠ Claim(s) <u>1-5,7-18 and 29-37</u> is/are pending in t 4a) Of the above claim(s) <u>7,9,10,15,17 and 18</u> i 5) ⊠ Claim(s) <u>1-5,8,29 and 30</u> is/are allowed. 6) ⊠ Claim(s) <u>11-14,16 and 31-37</u> is/are rejected. 7) □ Claim(s) is/are objected to. 8) □ Claim(s) are subject to restriction and/or	s/are withdrawn from consideration	on.
Application Papers		
9) The specification is objected to by the Examiner 10) The drawing(s) filed on is/are: a) access Applicant may not request that any objection to the of Replacement drawing sheet(s) including the correction in the oath or declaration is objected to by the Examiner	epted or b) objected to by the Eddrawing(s) be held in abeyance. See ion is required if the drawing(s) is obj	e 37 CFR 1.85(a). ected to. See 37 CFR 1.121(d).
Priority under 35 U.S.C. § 119		
12) Acknowledgment is made of a claim for foreign a) All b) Some * c) None of:  1. Certified copies of the priority documents 2. Certified copies of the priority documents 3. Copies of the certified copies of the prior application from the International Bureau * See the attached detailed Office action for a list of	s have been received. s have been received in Application ity documents have been receive I (PCT Rule 17.2(a)).	on No ed in this National Stage
Attachment(s)  1) Notice of References Cited (PTO-892)  2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date	4) Interview Summary Paper No(s)/Mail Da 5) Notice of Informal P 6) Other:	

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Claims 7, 9, 10, 15, 17 and 18 are withdrawn from further consideration pursuant to 37 CFR 1.142(b) as being drawn to a nonelected invention and species, there being no allowable generic or linking claim. Election was made without traverse in the responses filed March 17, 2004 and Dec. 9, 2004.

Claims 11-14, 16 and 31-37 are rejected under 35 U.S.C. 102(b) as anticipated by or, in the alternative, under 35 U.S.C. 103(a) as obvious over Shoup et al. (5,591,129). et al. disclose balloon body 10 having an expandable region and a balloon waist (the portion of the balloon extending from reference numeral 19 to the right end of the balloon as seen in figure 12) including an annular wall having a first end (the right end), a second end (the left end), the balloon waist having a plurality of voids 26, 27 formed in the annular wall, wherein the plurality of voids are configured such that the void volume proximate the second end is greater than the void volume proximate the first end of the balloon waist. The balloon waist will have a reduced profile over a substantial portion of the balloon waist subsequent to thermal reformation. words, if the balloon waist shown in figure 12 is subjected to the melted balloon thermal reformation, material inherently flow into voids 26, 27 and reduce the profile of the Note that the claims are drawn to a balloon waist with Application/Control Number: 10/032,962

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voids rather than a method of thermal reformation. The void volume of Shoup et al. increases distally along the length of the balloon waist toward the distal end since the void volume is relatively small at the left side of a set of openings and then increases toward the distal end of the waist until it reaches a maximum at the center of the set of openings. Alternatively, it would have been obvious that the void volume of Shoup et al. increases distally along the length of the balloon waist toward the distal end for this reason. As to claim 12, the voids 26, 27 cause the material volume per unit length to decrease in the distal direction for the same reason.

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Claims 1-5, 8, 29 and 30 are allowed.

Applicant's arguments filed July 10, 2006 have been fully considered but they are not persuasive. The allegation that the distance across one half of an orifice 26, 27 of Shoup et al. is not a "substantial distance" is incorrect. As seen in the figures each of the orifices 26, 27 is quite large such that it extends along a considerable distance along the length of the balloon waist. Therefore the distance across one half of an orifice 26, 27 is a substantial distance.

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael Thaler whose telephone number is (571)272-4704. The examiner can normally be reached Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Anhtuan T. Nguyen can be reached on (571)272-4963. The fax phone number for the organization where this application or proceeding is assigned is (571)273-8300.

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mht 8/17/06 MICHAEL THALER PRIMARY EXAMINER ART UNIT 3731

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